

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/000232

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 B01J8/04

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 B01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 4 769 220 A (ZARDI UMBERTO) 6 September 1988 (1988-09-06) figure	1-7
Y	US 5 035 867 A (DANG VU QUANG ET AL) 30 July 1991 (1991-07-30) column 6, line 20-25; figures 1,2	1-7
A	DE 41 20 788 A (HENKEL KGAA) 7 January 1993 (1993-01-07) figures 3-5	1-7
A	US 5 013 426 A (LE PAGE JEAN-FRANCOIS ET AL) 7 May 1991 (1991-05-07) figures 3-4B	1-7
		-/-

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

1 June 2004

Date of mailing of the international search report

17/06/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Gruber, M

**INTERNATIONAL SEARCH REPORT**International Application No  
PCT/EP2004/000232**C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 101 16 150 A (MG TECHNOLOGIES AG) 10 October 2002 (2002-10-10) the whole document -----	1-7
A	DE 28 03 945 A (SCHOBER ROBERT DIPL ING DR TEC) 3 August 1978 (1978-08-03) the whole document -----	1-7

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International Application No  
PCT/EP2004/000232

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 4769220	A	06-09-1988	CH CA EP	666198 A5 1271019 A1 0222069 A2		15-07-1988 03-07-1990 20-05-1987
US 5035867	A	30-07-1991	FR AT CA DE EP JP JP	2625692 A1 76330 T 1335753 C 68901535 D1 0324670 A1 1230989 A 2745140 B2		13-07-1989 15-06-1992 06-06-1995 25-06-1992 19-07-1989 14-09-1989 28-04-1998
DE 4120788	A	07-01-1993	DE WO	4120788 A1 9300159 A1		07-01-1993 07-01-1993
US 5013426	A	07-05-1991	FR EP JP KR	2633635 A1 0405038 A1 2060993 A 9306816 B1		05-01-1990 02-01-1991 01-03-1990 24-07-1993
DE 10116150	A	10-10-2002	DE EG WO EP	10116150 A1 23018 A 02079088 A2 1385785 A2		10-10-2002 31-12-2003 10-10-2002 04-02-2004
DE 2803945	A	03-08-1978	AT AT DE	367722 B 56077 A 2803945 A1		26-07-1982 15-12-1981 03-08-1978